PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REC'D 0 2 AUG 2005 WIPO

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	SeeNotification Examination R	nofTransmittalofInternationa Leport (Form PCT/IPEA/416)	Preliminary
nternational application No.	International filing date(day/mo 15 DECEMBER 2003 (1		Priority date (day/month/yet 16 JANUARY 2003 (16.0)	
PCT/KR2003/002747 International Patent Classification (IPC) IPC7 F16K 37/00				
Applicant LEE Chul Jae et al				
and is transmitted to the application. This REPORT consists of a total amended and are the basing 70.16 and Section 607 of these annexes consist of a total amended and section for these annexes consist of a total amended and are the basing 70.16 and Section 607 of these annexes consist of a total amended and are the basing 70.16 and Section 607 of these annexes consist of a total amended and section for the section for the report of the report o	al ofsheets, inches a panied by ANNEXES, i.e., sheets is for this report and/or sheets could be administrative Instructions used ofsheets. In a sheets. In a sheets is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the following items: In a sheet is relating to the fol	uding this cover s s of the descripti ntaining rectifica nder the PCT). Ity, inventive step and to novelty, invent	heet. on, claims and/or drawings vitions made before this Authority and industrial applicability	which have been nority (see Rule
Date of submission of the demand	T.	Date of completion		
15 NOVEMBER 20	004 (15.11.2004)	18 JULY	2005 (18.07.2005)	
Republic of Korea	operty Office o-gu, Daejeon 302-701,	Authorized office LEE, Jin Hy Telephone No. 8	yung .	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/KR2003/002747

I.	Basis	of the report
<u> </u>	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:, as originally filed
		pages, filed with the demand pages, filed with the demand
		pages, filed with the letter of
		the claims:
	نــا	pages, as amended (together with any statment) under Article 19 pages, as amended (together with any statment) under Article 19
		pages, filed with the letter of
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		the sequence listing part of the description: pages
		pages, filed with the demand
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٠.		ith regard to the language, all the elements marked above were available or furnished to this Authority in the language in which
2		
	Ine Th	e international application was filed, unless otherwise indicated thiod the variable international application was filed, unless otherwise indicated thiod this language English which is less elements were available or furnished to this Authority in the following language English which is
•	Ê	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
		1. the learning of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/
	L	or 55.3).
l		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international
	3. V	reliminary examination was carried out on the basis of the sequence listing.
		contained inthe international application in written form.
ĺ	Ē	filed together with the international application in computer readable form.
١	Ē	furnished subsequently to this Authority in written form.
١	Ē	furnished subsequently to this Authority in computer readable form
		The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the
	L	the standard of filed has been firmshed.
	Ė	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
	, F	The amendments have resulted in the cancellation of:
	4. L	- _
		the description, pages
		the claims, Nos.
	_	the drawings, sheets
	5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**
	i.	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to In this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
٠	**,	Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION

International application No.
PCT/KR2003/002747

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
 citations and explanations supporting such statement

1.	Statement Novelty (N)		2, 3, 5-11 1, 4	YES NO
	Inventive step (IS)	Claims Claims	2, 3. 5-11	YES NO
	Industrial applicability (IA)	Claims Claims	1-11 NONE	YES

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 5,171,429 A (15 December 1992)

D2: US 5,491,617 A (13 February 1996)

D3: KR 2000-24110 A (6 May 2000)

D4: JP 02-286987 A (27 November 1990) (not cited in the ISR)

Novelty and Inventive Step

D4 is the closest prior art to claims 1 and 4 of the present application.

Claim 1 relates to a tap water temperature sensing type of light emitting apparatus, comprising a power source, a control unit, a sensing unit and a light emitting unit. D1 relates to a hot and cold water mixing valve and faucet comprising an electric cord, a water pressure switch, a temperature sensor and a light source. The power source, the control unit, the sensing unit and the light emitting unit according to claim 1 are respectively equivalent to the electric cord, the water pressure switch, the temperature sensor, and the light source according to D1.

Claim 4 relates to the light emitting apparatus of claim 1, wherein the light emitting unit comprises a light transmitting unit made of optical fiber. Said light transmitting unit is equivalent to the light guiding means of D4.

Therefore, claims 1 and 4 do not meet the requirements of PCT Article 33(2) and 33(3).

The subject matter of claims 2, 3 and 5-11 is not described in D4 nor is it rendered obvious. Accordingly, a person skilled in the art can readily not invent the light emitting apparatus claimed in claims 2, 3 and 5-11. Therefore, claims 2, 3 and 5-11 meet the requirements of PCT Article 33(2) and 33(3).

(Continued on supplemental sheet)

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Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

Industrial Applicability

The present invention which enables a user to visually observe the water temperature can be usefully used. Therefore, claims 1-11 meet the requirement of PCT Article 33(4).

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